LONGFLOOR Rap7D TECHNICAL DATA

Longfloor Rap7D is a fast drying, cementitious, flowing screed developed in partnership with Retanol.
It is suitable for all types of flooring applications.

Technical Information

Longfloor Rap7D is produced in an ISO 9001 quality-controlled environment and meets the requirements of BS EN 13813:2002.

Compressive Strength	C30
Flexural Strength	F6
Drying Shrinkage	≤500µm/m or 0.05%
Fresh Wet Density	2,100-2,200kgs/m³
Dry Density	1,950-2,050kgs/m³
Flow Range	260-280mm
Surface Regularity	SR2 - BS8204-7
Foot Traffic	24-48 hours
ISCR Test	Category A
Bay Sizes	Unheated - 250m², Heated - 100m²
Thermal Conductivity	1.9W/m.K to 2.6W/m.K (dependant on raw material package)

Thickness Information

Bonded	20mm
Unbonded	25mm
Floating (on insulation)	40mm
Cover to UFH pipes	20mm
Maximum	100mm

Drying Times

Longfloor Rap7D will be suitable to receive non-moisture sensitive floor finishes at 5 days, reaching 85% RH (3.5%CM). In ideal conditions (20°C and 65% relative humidity) the screed will have achieved 75% RH (2.5% CM) at 7 days. Underfloor heating systems can be turned on after 2 days (*please consult our aftercare guidance document for guidelines*). These values are based on a screed thickness up to 50mm.

Sanding

Longfloor Rap7D does not produce a surface laitance that requires removal post install. Industry guidance however, suggests all screeds should be lightly abraded prior to the application of a bonded floor finish in accordance with the Contract Flooring Association. Longfloor Rap7D is compatible with all types of primers, grouts and adhesives. Longfloor Rap7D is not intended to be a wearing screed. .

Jointing

Bay Sizes - maximum bay size between 200-250m2 for non heated and 100m2 when underfloor heating is present. This is dependent on length to width ratio and shape of area to be poured. Consideration should always be made for the allowance of joints when the length to width aspect ratio exceeds 4:1, across doorway thresholds, where there are columns, pipes etc. projecting through the screed and where there is a change in the underfloor heating zone
(if applicable).

Placing and Curing

The building should be fully weather proof before pouring commences. Where applicable, especially on ground floors and if not bonded, there must be a damp-proof membrane below the screed or base. The screed should only be laid when the internal air temperature is between 5°C and 30°C.

The freshly poured Longfloor Rap7D screed is levelled using a dappling bar, ensuring two passes are undertaken 90 degrees to each other.

The floor should not be subjected to severe draughts, direct sunlight or heating for the first 24-48 hours to prevent rapid drying during this important early stage. After placing, the room in which the screed has been laid should be sealed therefore for a minimum of 48 hours, the room will be suitable for light foot traffic after this period and can be worked onafter 72 hours.

Drying

The ambient conditions must be suitable for the drying of the screed with low air humidity (preferably 60% RH or less) and good ventilation. Before floor finishes are laid, the moisture content of the screed should be ascertained to be at, or below the required level. Underfloor heating systems can be commissioned after
2 days.

Environmental

Longfloor binder contains 95% recycled content as verified under ISO 14021. Certificate available on request.